

LAKSHMI KARTHIK KOMBATHULA

Software Engineer

+91-9949466392

@ kombathulakarthik12@gmail.com

Mysore - India

in [Linkedin](#)

[Github](#)

[Leetcode](#)

EXPERIENCE

Backend Development Intern

Hospital Management System for Patient Records

Jul 2023 – Sep 2023

Hyderabad, India

- Developed and maintained the **Patient Management Module** of a **Hospital Management System**, enabling efficient **CRUD Operations** (Create, Read, Update, Delete) for patient records.
- Implemented secure **RESTful API Integration** for managing patient data including registration, medical history, and appointment details.
- Designed responsive and reusable UI components using **ReactJS** and integrated backend services for real-time data handling.
- Ensured **Data Validation, Error Handling, and Form Verification** to maintain data accuracy and system reliability.
- Collaborated with the team on **system architecture, database design, and API development** to enhance overall performance and scalability.

ACHIEVEMENTS

- Successfully completed a **6-Month Data Structures and Algorithms Course** from **Coding Ninjas**.
- Made **48 Personal Projects** in Web Development (Frontend + Backend) using Different Web Technologies.
- Solved Over **250 Coding Questions** on Different Coding Websites.

TECHNICAL SKILLS

- Programming Languages:** Java, JavaScript, TypeScript.
- Frontend:** React.js, HTML, CSS, Tailwind CSS
- Backend:** Spring Boot (Security, OAuth2, Data JPA, AI), Hibernate, Thymeleaf, Lombok, RESTful APIs
- Databases:** MySQL, PostgreSQL, HSQL, MongoDB, Cloud Databases (Railway, Neon)
- Cloud Platforms:** AWS, GCP
- DevOps & Containerization:** Docker, Kubernetes
- Deployment:** Render, Netlify, Vercel
- Integrations:** Razorpay, Stripe, PayPal APIs
- Tools:** Git, GitHub, Maven, Postman, IntelliJ IDEA, VS Code, Eclipse
- Core Concepts:** Data Structures, Algorithms, OOPs, DBMS

COURSEWORK SUBJECTS

- Operating System
- Computer Networks
- Object Oriented Programming
- Data Structures & Algorithms
- Database Management System

EDUCATION

B.Tech. (AI & DS) - 8.54 CGPA

Sagi Rama Krishnam Raju
Engineering College

2021 – 2025

Bhimavaram, Andhra Pradesh

Higher Secondary - 97.1%

Sri N G R Junior College

2020

Nagaram, Andhra Pradesh

Secondary - 9.7 CGPA

A P S W R School

2018

Godi, Andhra Pradesh

PROJECTS

Course Payment

- Spring Boot | Spring Data JPA | Razorpay API | Thymeleaf | PostgreSQL**
- Built a Course Purchase System enabling secure online payments and order management for an E-Learning platform.
- Implemented Razorpay order creation, payment verification, and signature validation using REST APIs following layered architecture.
- Ensured secure transaction handling with server-side verification and reliable payment status updates in the database. [Github](#)

URL Shortener

- Java | Spring Boot | Spring Data JPA | MySQL | React.js | REST APIs**
- Developed a full-stack URL shortening application that converts long URLs into unique short links with redirection support.
- Designed and implemented RESTful APIs for URL creation and retrieval with persistent database storage using JPA.
- Built a responsive frontend interface using **React.js** for generating, displaying, and managing shortened URLs. [Github](#)

AI Chatbot

- Java | Spring Boot | Spring AI | OpenAI API | REST APIs | React.js**
- Developed an AI-powered chatbot integrating **OpenAI API** for real-time conversational responses.
- Designed RESTful APIs to process user prompts and generate dynamic responses using Spring AI.
- Built a minimal frontend interface for interactive chat communication and seamless user experience. [Github](#)